

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
17 February 2005 (17.02.2005)

PCT

(10) International Publication Number  
WO 2005/014571 A1

(51) International Patent Classification<sup>7</sup>: C07D 401/04,  
295/14, 413/10, 413/14, 403/02, A61K 31/4545, A61P  
25/00

[GB/GB]: GlaxoSmithKline, New Frontiers Science Park  
South, Third Avenue, Harlow Essex CM19 5AW (GB).

(21) International Application Number:  
PCT/EP2004/008061

(74) Agent: GIBSON, Mark; GlaxoSmithKline (CIP-  
CN925.1), 980 Great West Road, Brentford Middlesex  
TW8 9GS (GB).

(22) International Filing Date: 16 July 2004 (16.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0316893.7 18 July 2003 (18.07.2003) GB  
0411167.0 19 May 2004 (19.05.2004) GB

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(71) Applicant (for all designated States except US): GLAXO  
GROUP LIMITED [GB/GB]; Glaxo Wellcome House,  
Berkeley Avenue, Greenford Middlesex UB6 0NN (GB).

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,  
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

(75) Inventors/Applicants (for US only): BAILEY, James,  
Matthew [GB/GB]; GlaxoSmithKline, New Frontiers  
Science Park South, Third Avenue, Harlow Essex CM19  
5AW (GB). BRUTON, Gordon [GB/GB]; GlaxoSmithK-  
line, New Frontiers Science Park South, Third Avenue,  
Harlow Essex CM19 5AW (GB). HUXLEY, Anthony  
[GB/GB]; GlaxoSmithKline, New Frontiers Science Park  
South, Third Avenue, Harlow Essex CM19 5AW (GB).  
MILNER, Peter, Henry [GB/GB]; GlaxoSmithKline,  
New Frontiers Science Park South, Third Avenue, Har-  
low Essex CM19 5AW (GB). ORLEK, Barry, Sidney

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

WO 2005/014571 A1

(54) Title: SUBSTITUTED PIPERIDINES AS HISTAMINE H3 RECEPTOR LIGANDS

(57) Abstract: The present invention relates to novel piperidine ether derivatives having affinity for the histamine H3 receptor, processes for their preparation, to compositions containing them and to their use in the treatment of neurological and psychiatric disorders.

BEST AVAILABLE COPY